



1. Publishable Summary

The present document provides a detailed description of the structure of the deliverable *S2.D3.1 - Concept of models and definition of protocols*, released by the team of experts involved in WP3.

In the first part, the main and specific objectives of the Four Tasks and five Pilot Projects that compose the WP3 are presented. The main objective, which is common to all the pilots, is to setting up digital solutions to obtain comprehensive sets of data related to lifestyle determinants and influencing the onset of chronic diseases for primary prevention. These digital solutions will include new and already existing web-based platforms, apps and wearable devices, and will be targeted to healthy populations aged 6 or more, also with some focus on transplanted individuals and people from the working sector.

Macro-activities of each task are evidenced, starting from preliminary searches of the scientific literature on the different topics treated; the identification of outcome indicators to be included in the data collection; the selection/development of questionnaires useful for digital surveys; the selection/development of platforms for data collection and for community trials; the selection/development of apps and wearables targeted to each kind of macro-population considered; the marketing evaluations through a real-world evidence approach.

In the second part of the report, issues related to the description of data sources for each Pilot, strategies of interaction of the new platforms with the Alma Health DB, logical models of digital functions, API libraries building and management protocols for the Pilot implementation and orchestration are examined. In particular, features of the developed web-based platforms are identified and one of the decentralized or federated operating models will be adopted. To monitoring and selecting the most promising transversal technologies used by all the Pilots, a collaborative approach among different teams was carried out.